

# AIR FORCE CIVIL ENGINEER SUPPORT AGENCY



2010-2011

*Engineering Agile Combat Support Worldwide*

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## AFCESA PROACTIVELY SUPPORTS ITS CUSTOMERS

I am pleased to present the FY11 version of the Headquarters Air Force Civil Engineer Support Agency brochure. This product provides a broad overview of your Agency and how we support the Civil Engineer Community.

AFCESA has identified three core competencies to enhance mission capability and warfighter support, including readiness, installation operations, and facility energy management.

Readiness: AFCESA is the Air Force readiness expert. We enhance civil engineer expeditionary combat support by providing responsive, sustained, and effective operations minimizing loss or degradation of resources across the full-threat spectrum at home and abroad.

Operations: AFCESA provides Air Force installation maintenance and engineering operations expertise. We deliver the finest technical and contract services to improve base civil engineer capabilities worldwide.

Energy: AFCESA is the DoD leader that fosters facility energy reduction and water conservation initiatives, champions renewable energy investments, and exploits utility cost-saving opportunities.

We have extremely dedicated and talented professionals at AFCESA. To reach an AFCESA subject matter expert or other support professional, call our Reach-Back Center at 888-232-3721 or email [afcesar@tyndall.af.mil](mailto:afcesar@tyndall.af.mil).



DAVID L. REYNOLDS, Colonel, USAF  
AFCESA Commander





# READINESS

Readiness has been job #1 since our beginning in 1966 and we continue that tradition of excellence today by enabling civil engineers to execute their expeditionary combat support and emergency services missions safely, effectively and efficiently.

## EMERGENCY MANAGEMENT

AFCESA's Emergency Management personnel from the engineer, medical, biomedical, security forces, and logistics communities provide reach-back capability for installations and MAJCOM staffs. They work closely with and support national, state, local, and civilian response agencies. They also support homeland security operations and provide support to civil and host-nation authorities in accordance with DoD directives and through the appropriate combatant command.

## EXPEDITIONARY ENGINEERING

AFCESA supports all major commands to ensure that Air Force civil engineers are organized, trained, and equipped so they can deploy rapidly and efficiently during a time of crisis. Our expeditionary engineering team helps manage the Prime BEEF and RED HORSE programs.

Our contingency training experts manage Silver Flag, Mission Essential Equipment Training, and Home Station Training curriculums as well as Combat Skills Training programs, ensuring the most efficient use of training time to better prepare our civil engineer warriors for their deployments. We have also restructured the Prime BEEF deployed personnel and equipment packages to better support combatant commanders and are the technical lead for mobility equipment modernization.





# READINESS

## FIRE EMERGENCY SERVICES

AFCESA develops policy and guidance for Air Force Fire Emergency Services. We administer the DoD Fire and Emergency Services Certification System and develop training courses supporting 28 individual accredited certification levels. AFCESA also oversees the DoD Fire Academy located at Goodfellow AFB, Texas. In FY10, we procured 190 fire vehicles valued at \$56M and distributed them to Air Force installations worldwide. AFCESA also provides a representative who serves as the Chairman of the North Atlantic Treaty Organization's Crash Firefighting Rescue Panel.

## EXPLOSIVE ORDNANCE DISPOSAL

The EOD staff at AFCESA determines manpower, training, and equipment requirements. We oversee the distribution of newly developed equipment and assist in research, development, and acquisition.

AFCESA's EOD experts helped establish the Combat Battlefield Ready Airman (CoBRA) class at Silver Flag, Tyndall Air Force Base, Fla. CoBRA's flexibility and efficiency offers the right training every time. AFCESA also works with MAJCOMs to enhance their ability to equip EOD Airmen.





# OPERATIONS

AFCESA's Operations support personnel deliver the best management, technical, and contract services and capabilities to our customers worldwide.

## CAREER FIELD MANAGEMENT

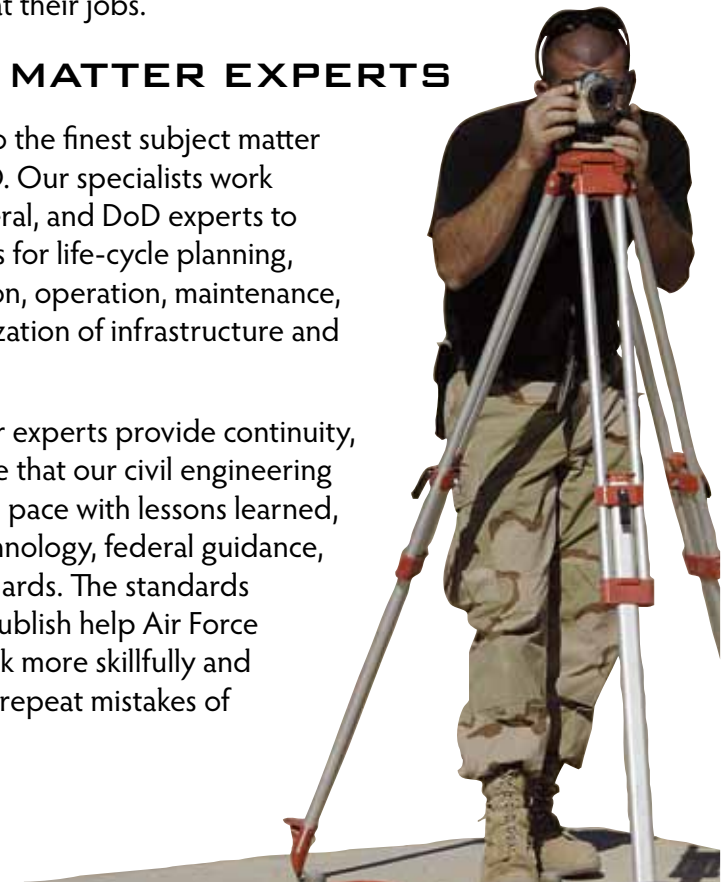
AFCESA's career field managers work closely with the Air Education and Training Command to ensure civil engineer courses offered in Air Force technical schools prepare our engineers for tomorrow's challenges.

Our training experts provide career field education for military and civilian engineers. We develop multi-media training products that help our civil engineers, even those at deployed locations, remain proficient at their jobs.

## SUBJECT MATTER EXPERTS

AFCESA is home to the finest subject matter experts in the DoD. Our specialists work with industry, federal, and DoD experts to establish standards for life-cycle planning, design, construction, operation, maintenance, repair, and revitalization of infrastructure and facility systems.

Our subject matter experts provide continuity, as well as assurance that our civil engineering "know-how" keeps pace with lessons learned, ever-changing technology, federal guidance, and industry standards. The standards and criteria they publish help Air Force civil engineers work more skillfully and efficiently and not repeat mistakes of the past.





# OPERATIONS

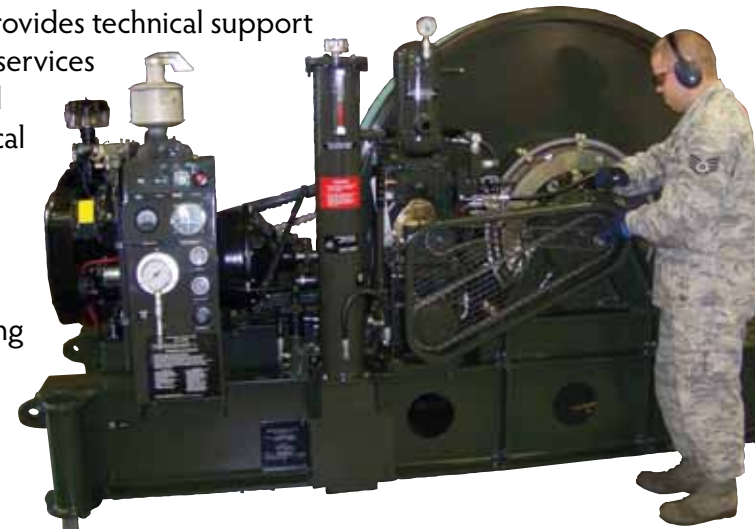
## AIRFIELD PAVEMENT EVALUATION TEAM

We provide direct support to units in the field in a number of areas. Our Airfield Pavement Evaluation Team travels the globe, evaluating the strength, performance, and condition of permanent and contingency airfields to ensure that flight operations can be conducted. We provide technical recommendations, equipment, and software for the management, design, and construction of pavements.

## CIVIL ENGINEER MAINTENANCE, INSPECTION, AND REPAIR TEAM

AFCESA's Civil Engineer Maintenance, Inspection, and Repair Team, known as CEMIRT, impacts Air Force installations around the world. Located at Tyndall and Travis Air Force Bases, these highly trained military, civilian, and contractor master technicians provide maintenance and repair support on power generation; electrical distribution; heating, ventilation, and air conditioning; and aircraft arresting systems (AAS). CEMIRT can overhaul an AAS at half the price of a new one.

CEMIRT also provides technical support for specialized services such as infrared scans of electrical distribution systems, and design and installation of utility monitoring and control systems.



# OPERATIONS

## AIR FORCE CONTRACT AUGMENTATION PROGRAM

The AFCESA staff manages the long-term, multi-billion dollar Air Force Contract Augmentation Program (AFCAP). It provides contingency support in the areas of design, construction, service contracts, logistics, and just-in-time commodity solutions. AFCAP is used by combatant and major commands, as well as other U.S. government agencies, to support a wide spectrum of response such as natural disaster recovery, humanitarian relief efforts, and rapid global force projection to meet urgent U.S. National Command Authority Objectives.

## SUSTAINMENT, RESTORATION, AND MODERNIZATION EXECUTION

AFCESA's Sustainment, Restoration, and Modernization Program (S/R&M) provides project execution support to bases as they maintain, update, and restore their facilities and infrastructure.

AFCESA S/R&M execution offers the synergy of technical subject matter expertise and a world-class project management team with direct access to a host of proven architectural, engineering, and construction contractors.





# ENERGY

Officially designated a center of excellence in 2007, The Air Force Facility Energy Center (AFFEC), at AFCEA, is made up of more than 50 engineering, legal, and technical support experts who identify, evaluate, and help implement technologies and funding strategies to enable the Air Force to meet and surpass federal energy goals.

## CONSERVATION

AFFEC's many conservation programs have helped Air Force bases reduce energy consumption nearly 12% in the past five years. The Conservation Branch develops energy implementation policy and guidance, manages the Air Force Facility Metering Initiative, and consolidates Air Force data from the Defense Utility Energy Reporting System to produce the *Air Force Annual Energy Report* which is aggregated in the *DoD Annual Energy Management Report* to Congress. Energy awareness materials, including training courses and educational tools, are also developed at AFFEC. The Conservation Branch has oversight of the Air Force Resource Efficiency Manager (REM) program, which currently includes more than 85 REMs.

## CAPITAL INVESTMENT

AFFEC's Capital Investment Program Management Office is charged with managing and implementing funding strategies that will meet and exceed energy targets. AFFEC has developed a Capital Investment Strategy for investing \$2B through 2015. The strategy calls for the Air Force to invest in facility audits, energy and water conservation, and renewable energy projects. Once implemented, the Capital Investment Strategy will provide new, more efficient facilities and free up millions of dollars to sustain mission readiness.







# ENERGY

## **ENERGY RATES AND RENEWABLES**

AFFEC's renewable energy experts and Utility Rates Management Team (URMT) help MAJCOMs and installations develop and execute renewable energy projects and negotiate utility rates. They assist installations with the purchase of renewable energy and renewable energy certificates. These professionals work closely with installations to make the Air Force the number one purchaser of green power in the federal government. The URMT, made up of engineers and attorneys, negotiates on behalf of the Air Force to help installations procure utility service at a fair and reasonable price. The URMT also analyzes bases' utility bills to find savings opportunities and represents installations before state utility regulatory bodies.

## **UTILITIES PRIVATIZATION**

The ongoing Utilities Privatization (UP) Program, directed by the Office of the Secretary of Defense, consists of two distinctly separate but concurrent instruments: 1) A bill of sale real property transaction executed by SAF/IEI to convey the utility system (electric, natural gas, water, and wastewater) to a municipal, private, regional, district, or cooperative utility company; and 2) a utility services contract executed under the FAR by a contracting officer for operations, maintenance, and recapitalization. Both instruments are with the same entity; the bill of sale is in perpetuity, the utility services contract is for a period not to exceed 50 years. It's important to know at the end of the contract period, ownership of the system does not revert to the Air Force. The UP Program Management Office (PMO), located at AFCEA, is the execution agent. The PMO prepares the technical content of the UP request for proposal, certifies the proposal economics, obtains Congressional approval of contract award, and assists the installation with post-award contract management. Once awarded, system ownership is transferred to the successful offeror under terms and conditions that protect the Air Force's interests.



# MISSION SUPPORT

The Mission Support staff enables and enhances AFCESA's readiness, energy, and operations core competencies through a full spectrum of mission support.

## FINANCIAL MANAGEMENT

We execute more than \$1B of civil engineering support annually, including Air Staff-managed programs; Sustainment, Restoration, and Modernization projects; and the Air Force Contract Augmentation Program for wartime, contingency, and humanitarian efforts.

## STRATEGIC PLANNING

Our strategic initiatives professionals translate AFCESA leadership's vision into implementable strategic plans meeting future Air Force and civil engineering goals and requirements. The team enables delivery of AFCESA products and services in our three core competencies through deliberate planning, continuous process improvement, information management applications, and internal agency strategic planning governance and performance management reviews.

## PROFESSIONAL COMMUNICATIONS AND HISTORY

Communicating with our customers is an important aspect of all we do. This is done through our public web page, the Air Force Portal, online communities of practice, and our many publications, such as the Air Force Civil Engineer magazine. The Civil Engineering Historian documents and preserves the history and heritage of the career field.







# AIR FORCE CIVIL ENGINEER SUPPORT AGENCY

*Tyndall Air Force Base, Florida*



**For more information, please call us:  
(850) 283-6995 ■ DSN 523 ■ 1-888-AFCESA-1**

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<http://www.afcesa.af.mil>**



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